

REMARKS

Status of Claims

Claims 1 and 3-6 have been rejected under 35 USC 103(a) for obviousness over Barnes in view of Frid.

Claim 2 has been rejected under 35 USC103(a) for obviousness over Barnes in view of Frid, in view of well known prior art.

Claim 7 has been rejected under 35 USC103(a) over Barnes in view of Frid and further in view of Einola.

Claim 1

Claim 1 has been amended to further clarify the distinction over the cited art.

Amended claim 1 now requires:

“the controlling support node responding to said receiving of the routing area update completion message by sending a mobile internet protocol agent advertisement to the mobile system, the mobile Internet protocol agent advertisement being the next message after the routing area update completion message to be communicated between the mobile system and the controlling support node.”

This feature is fully supported by the original disclosure of the specification, see for example:

“The reception at the SGSN 16 of a RA update message
can be used to trigger a MIP agent advertisement on the
traffic channels to the MS performing the RA update”. (page
3 lines 21-22)

Referring to Figure 3:

“STEP 11

The MS 60 acknowledges the new P-TMSI with a Routing Area Update Complete (P-TMSI, LLC Ack).” (page 6 lines 17 to 19)

“STEP 12

Over the newly setup link to the mobile, a Mobile IP Agent Advertisement is sent including challenge/response and NAI extensions.” (page 6 lines 25 to 27)

Referring to Figure 4:

“STEP 4

If P-TMSI was reallocated, the MS acknowledges the new P-TMSI with Routing Area Update Complete (P-TMSI).” (page 7 lines 30 to 32)

“STEP 5

If the New routing area I under the domain of a new FA (e.g. for load sharing reasons) then a Mobile IP Agent Advertisement is sent including challenge/response and NAI extensions.” (page 8 lines 1 to 4)

None of the cited art discloses or suggests this feature.

The reader person of ordinary skill in the art reads in Barnes sees from its Figure 5a and 5b and associated text, that the mobile node (12) sends a routing area complete message (Fig 5a:328) to the network side (page 10 lines 60-62) and then upon roaming, the mobile node (Fig 5a:12) sends a mobile IP registration request (Fig 5b:352) after which a location update message (Fig 5b:364) is sent from the network side. Fig 5b is a continuation of Fig 5a, see page 10 lines 64-65. This teaching is directly contrary to the present invention in which the next message sent between the mobile and support node

after the routing area update completion message is received by the support node is the mobile IP agent advertisement sent by the support node.

Frid also does not teach this required feature of claim 1. As shown in Frid Figure 6 and mentioned in Frid column 9 lines 40 to 44, the Mobile IP Agent Advertisement 780 is sent from the network side in response to receipt of a Mobile IP agent Solicitation message 770 from the mobile system (DTE).

What none of Barnes, Frid (or Leu) disclose or suggest is the controlling support node sending the agent advertisement in to the mobile system response to receipt of a routing area update completion message, the mobile Internet protocol agent advertisement being the next message after the routing area update completion message to be communicated between the mobile system and the controlling support node.

It falls that amended claim 1 is patentable to the standard of 35 USC103(a) over this cited art.

Claims 2 to 7

Claims 2 to 7 are patentable not least on the basis that they each depend on an allowable claim 1.

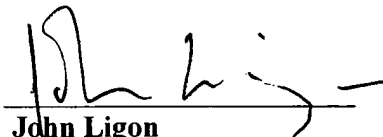
Conclusion

In view of the foregoing, allowance of all the claims presently in the application is respectfully requested, as is passage to issuance of the application. If the Examiner should feel that the application is not yet in a condition for allowance and that a telephone interview would be useful, he is invited to contact Applicants' undersigned attorney at 908 582-5294.

Respectfully submitted,

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